YNK-DBR No. 08
Date 25.04.16

AEE/YNK SUB. DN
SBR No: 170/15-16
Date: 31/3/16

1st & Final

# Original/Duplicate/Triplicate
# CONTRACT CERTIFICATE
(For Other Works)

No.....

Division: **BBMP / YNK** Sub-Division: **Yelahanka Sub – Division.**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Work Code: 002-16-000017**

Schedule Docket No. Head of Account: Est.Cost: **7.00** Lakhs B.R.No. :

Name of Work : Drilling of borewells and providing pipe line at old town area in ward No- 02 of yelahanka Sub division.

Name of Contractor and Full Address: **Sri Adhinarayana reddy, Adi electrical Bhadranna layout Maruthinagara yelahanka Bangalore**

Reference to Agreement No. EE/YNK.D/ EPMT-1/**W.O/22 /2015-16** Date :24-2-2016.

Certified that the measurements were taken by me on 31.03.16 and recorded of Pages..... to.....of measurement Book No. 21.3 and that the work is satisfactorily executed.

**Contractor** **Officer-in-charge of work**

Certified that the measurement were taken by me on 5/4 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

**Sub-Division Officer**

II Memorandum of Payment

| | | |
|---|---|---|
| 1) Total value of work done or supplies made as per account within | Bill Amount | 695253:00 |
| 2) Deduct amount to be held in reserve being .....percent Rs..... | FSD | 34763:00 |
| 3) " Balance | IT | 6953:00 |
| 4) Deduct Payment: | KST | 27810:00 |
| a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of | EWF | 6953:00 |
| | LBF | 695:00 |
| b) Payments Now made: cost store or other material supplied. recovery of amount creditable to this/other work. Amount paid on this bill Cheque / Cash. | T.D | 77174:00 |
| 5) Balance being unpaid value of work done held in reserve. | Net | 618079:00 |
| 6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments. | | |
| 7) Net amount due to or from Contractor unadjustments items. | | |
| 8) Advance to Contractor for materials brought to site (as detailed) within. | | |
| 9) Value of Government materials supplied. | | |
| Total amount adjusted - | | |

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

695253:00

(For use in the Office)

Witness
1.
2.

Dated Signature of Contractor

Stamp

618079:00

77174:00

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

**Executive Engineer**

| sl no | Description of work | Unit |
|---|---|---|
| 1 | Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction . | Each |
| 2 | Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) | Rmtr |
| | 0 to 50 m | |
| | 50 to 100 m | |
| | 100 to 150 m | |
| | 150 to 200 m | |
| | 200 to 250 m | |
| | 250 to 300m | |
| 3 | Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) | Rmtr |
| 4 | Providing and fixing 250mm dia PVC 6 kg/sqcm pressure pipe including jointing and labur charges for laying pipes and as per specification and directions. ( BWSSB SR 13-14, P.No.45 I.no.1 of sl.no.11.) | Each |
| 5 | 175 mm dia M.S. Casing cap (P.NO-III, I.NO-85, PRED 12-13 SR) | Each |
| | M.S. Casing pipe collars 'C' Class (P.NO-III, I.NO-86, PRED 12-13 SR) | Each |
| 7 | Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings | No |
| 8 | Providing, GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe (SR 13-14 PWD Page No XVII code No 509, 0154 ) | Rmtr |
| 9 | Providing & fixing socket GI (heavy duty collar) (Pwd SR pg xxxviii) | |
| 10 | Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/19.01.2009 (1x3x4.00 Sqmm PVC cable | Mtr |
| 11 | Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR) | No |
| 12 | Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc,. complete box of 21600 sq cm (P.NO-530, I.NO-39 b, BWSSB SR 13-14) | Sqm |
| 13 | Providing & Fixing of clamps set and borewell cap to the pump . | No's |
| 14 | Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark ( 50mm Gate wheel Valve.) (PWD SR 13-14, P.NO.XXIV, Sl.no, 673) | No's |
| 15 | Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR 13-14, P.NO.XXIV, Sl.no, 659) | No's |
| 16 | Providing and fixing of 50mm GI bend to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE) | No's |

| Previous Measurment | | Present Measurement | | | Total up-to date | | Remarks |
|---|---|---|---|---|---|---|---|
| Qty | cost | Qty | Rate | Cost | Qty | cost | |
| – | – | 1.00 | 1882.00 | 1882.00 | 1.00 | 1882.00 | |
| – | – | | | 0.00 | 0.00 | 0.00 | |
| – | – | 50.00 | 315.00 | 15750.00 | 50.00 | 15750.00 | |
| – | – | 50.00 | 420.00 | 21000.00 | 50.00 | 21000.00 | |
| – | – | 50.00 | 460.00 | 23000.00 | 50.00 | 23000.00 | |
| – | – | 50.00 | 490.00 | 24500.00 | 50.00 | 24500.00 | |
| – | – | 50.00 | 560.00 | 28000.00 | 50.00 | 28000.00 | |
| – | – | 25.00 | 650.00 | 16250.00 | 25.00 | 16250.00 | |
| – | – | 60.00 | 1330.00 | 79800.00 | 60.00 | 79800.00 | |
| – | – | 17.00 | 1135.00 | 19295.00 | 17.00 | 19295.00 | |
| – | – | 1.00 | 100.00 | 100.00 | 1.00 | 100.00 | |
| – | – | 14.00 | 160.00 | 2240.00 | 14.00 | 2240.00 | |
| – | – | 1.00 | 70600.00 | 70600.00 | 1.00 | 70600.00 | |
| – | – | 246 250.00 | 330.00 | $11180 82500.00 | 246 250.00 | $11180.00 82500.00 | |
| – | – | 55.00 | 85.00 | 4675.00 | 55.00 | 4675.00 | |
| – | – | 555.00 | 165.00 | 91575.00 | 555.00 | 91575.00 | |
| – | – | 1.00 | 10000.00 | 10000.00 | 1.00 | 10000.00 | |
| – | – | 22000.00 | 0.35 | 7700.00 | 22000.00 | 7700.00 | |
| – | – | 1.00 | 450.00 | 450.00 | 1.00 | 450.00 | |
| – | – | 3.00 | 1600.00 | 4800.00 | 3.00 | 4800.00 | |
| – | – | 3.00 | 1150.00 | 3450.00 | 3.00 | 3450.00 | |
| – | – | 3.00 | 220.00 | 660.00 | 3.00 | 660.00 | |

| sl no | Description of work | Unit |
|---|---|---|
| 17 | Providing and fixing of 50mm GI Nipple to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE) | No's |
| 18 | Providing and fixing of 50mm GI union to the motor ( (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE) | No's |
| 19 | Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14) | Per length |
| 20 | Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement out door type. (MR) | No's |
| 21 | Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14) | No's |
| 22 | Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable ( confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14) | Mtr |
| 23 | Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14) in hard soil | Mtr |
| 24 | Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14) | Mtr |
| 25 | Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia (P.NO - 552, I.NO - 7 , BWSSB SR 13-14) | No's |
| 26 | Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, (P.NO - 555, I.NO - 16 (b) , BWSSB SR 13-14) | No's |
| 27 | Supplying shunt capacitor's confirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR) | No's |
| 28 | Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc,. Complete. 50mm dia (P.NO - 103, I.NO - 13.79.6, PWD SR 13-14) | No's |
| 29 | Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches (P.NO - 521, I.NO - 2 (f), BWSSB SR 13-14) | No's |
| 30 | KSRB 2-1.1:Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.1, PWD SR 15-16) | Cum |
| | for PVC pipe | |
| 31 | Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.12 item No.3.4.2 b PRED SR 2010-11. | Rmtr |
| | 75 mm dia 6 KSC PVC pipe | |
| | 63mm dia 6KSC | |
| 32 | Providing and installation at site of work 20mm GI pipes including cost of pipes and specials and labur incluidng lowering into trenches, laying ture to line, complete as per direction of Engineer in charge for public taps for motors/pipeline (P.No.95, I.No.13.11 PWD SR 15-16) | Mtr |
| 33 | Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 13-14) | cum |
| | TOTAL | |

Certificates:

1 The above work is done satisfactorily and complete in all respect.
2 There is no department Material issue for the above work.
3 This works comes under BBMP Limit.

| Previous Measurment | | Present Measurement | | | Total up-to date | | Remarks |
|---|---|---|---|---|---|---|---|
| Qty | cost | Qty | Rate | Cost | Qty | cost | |
| – | – | 3.00 | 105.00 | 315.00 | 3.00 | 315.00 | |
| – | – | 3.00 | 225.00 | 675.00 | 3.00 | 675.00 | |
| – | – | 52.00 | 91.00 | 4732.00 | 52.00 | 4732.00 | |
| – | – | 1.00 | 500.00 | 500.00 | 1.00 | 500.00 | |
| – | – | 1.0 | 906.00 | 906.00 | 1.00 | 906.00 | |
| – | – | 32.0 | 170.00 | 5440.00 | 32.00 | 5440.00 | |
| – | – | 32.0 | 57.00 | 1824.00 | 32.00 | 1824.00 | |
| – | – | 3.0 | 300.00 | 900.00 | 3.00 | 900.00 | |
| – | – | 1.00 | 1700.00 | 1700.00 | 1.00 | 1700.00 | |
| – | – | 1.00 | 272.00 | 272.00 | 1.00 | 272.00 | |
| – | – | 1.00 | 1350.00 | 1350.00 | 1.00 | 1350.00 | |
| – | – | 3.00 | 1530.00 | 4590.00 | 3.00 | 4590.00 | |
| – | – | 1.00 | 312.00 | 312.00 | 1.00 | 312.00 | |
| – | – | | | 0.00 | 0.00 | 0.00 | |
| – | – | ~~270.00~~ 259.2 | 285.00 | ~~76950.00~~ 73872 | ~~270.00~~ 259.2 | ~~76950.00~~ 73872 | |
| – | – | | | 0.00 | 0.00 | 0.00 | |
| – | – | ~~250.00~~ 240 | 118.00 | ~~29500.00~~ 28320 | ~~250.00~~ 240 | ~~29500.00~~ 28320.00 | |
| – | – | ~~250.00~~ 240 | 120.00 | ~~30000.00~~ 28800 | ~~250.00~~ 240 | ~~30000.00~~ 28800.00 | |
| – | – | 30.00 | 200.00 | 6000.00 | 30.00 | 6000.00 | |
| – | – | ~~270.00~~ 259.2 | 78.00 | ~~21060.00~~ 20217 | ~~270.00~~ 259.2 | ~~21060.00~~ 20217 | |
| | | | | ~~695253.0~~ | | ~~695253~~ | |

~~712253~~ 682632:00

~~712253~~ 687632:00

Recom +8289:00

695921

W.O. Amt

Limit to ~~BA Amt~~ = 695253

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore